Our **IPS Teflon® Pneumatic Valve** (TP Valve) features an all PTFE wetted surface design. The design is ideally suited for harsh chemical and corrosive media and environments.

Polytetrafluoroethylene (PTFE), commonly known by its popular E.I. DuPont trade name Teflon®, is well suited for clean room and deionized water applications.

### Features
- One Piece PTFE Body
- Optimum Anti-Corrosion Design
- Ideal for Hi-Temp Applications
- Complete Media Isolation

### Materials of Construction
- Body: PTFE
- Bellows/Poppet: PTFE
- Backing Plate: PTFE
- Piston: PVDF
- Cap: Polypropylene
- Spring: Stainless Steel

### Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th>1/2&quot; Orifice</th>
<th>3/4&quot; Orifice</th>
<th>1&quot; Orifice</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV</td>
<td>2.2</td>
<td>2.8</td>
<td>7.5</td>
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<tr>
<td>Max Pressure</td>
<td>75 psi</td>
<td>50 psi</td>
<td>50 psi</td>
</tr>
<tr>
<td>Port A</td>
<td>45 psi</td>
<td>10 psi</td>
<td>10 psi</td>
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<tr>
<td>Port B &amp; C</td>
<td>50 / 80</td>
<td>50 / 80</td>
<td>50 / 80</td>
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<tr>
<td>Actuator Pressure</td>
<td>300° F</td>
<td>300° F</td>
<td>300° F</td>
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</table>

1. Specifications applicable for both normally open and normally closed configurations.
2. See Pressure vs. Temperature graph for full range.
3. Port C reference for 3-Way only.
2-Way TP Valve

1/8" NPT
ACTUATION PORT

PORT A

PORT B

1/4-20 X .50
MOUNTING HOLES

For 3/4" - 1"
TP Valves Only
(Actuation Source for Port C)

For 1/2"
TP Valves Only
(Actuation Source for Port C)

3-Way TP Valve

1/8" NPT
(Actuation Source for Port B)

PORT A

PORT B

PORT C

1/4-20 X .50
MOUNTING HOLES
<table>
<thead>
<tr>
<th>Style</th>
<th>Port A, B, C</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
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<tbody>
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<td>2 Way</td>
<td>1/2&quot;</td>
<td>3.56</td>
<td>2.48</td>
<td>1.18</td>
<td>2.19</td>
<td>0.70</td>
<td>0.53</td>
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<tr>
<td></td>
<td>3/4&quot;</td>
<td>5.61</td>
<td>3.56</td>
<td>1.94</td>
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<td>1.21</td>
<td>0.85</td>
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<tr>
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<td>1.0&quot;</td>
<td>5.61</td>
<td>3.56</td>
<td>1.94</td>
<td>3.65</td>
<td>1.21</td>
<td>0.85</td>
<td>n/a</td>
</tr>
<tr>
<td>3 Way</td>
<td>1/2&quot;</td>
<td>3.56</td>
<td>4.25</td>
<td>1.18</td>
<td>2.19</td>
<td>0.70</td>
<td>0.53</td>
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<td>5.61</td>
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<td>1.93</td>
<td>3.64</td>
<td>1.21</td>
<td>0.85</td>
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Application Uses:
- Chemical Neutralization
- Chemical Delivery
- DI Water Rinse
- Wafer Etching
- Acid Parts Cleaning
- Phosphoric Acid Nitride Removal
- Sulfuric Peroxide Stripping
- Potassium Hydroxide Etching
IPS Product Notes:

1. Please email Customer Service at info@ipolymer.com
2. Call us for special applications. We can manufacture our Valves with special mounting and interface dimensions.
3. Upon request, alternate material selection from those listed will allow for expanding temperature ratings or other performance characteristics.
4. Unauthorized disassembly of this product will void the original factory one-year product warranty. For further details please contact your local Distributor or our factory directly.

Teflon Pneumatic Valve: ORDERING FORMAT

**Teflon Pneumatic**

**Ways**
2W = 2-Way  
3W = 3-Way

**Port & Orifice Size**
8 = 1/2"  
12 = 3/4"  
16 = 1"

**Port Connection**  
P = Female Pipe (FNPT)

This style TP Valve offer a continuous metered flow path to reduce the potential of chemical and bacteria build-up. Currently only offered in our 2-Way Normally Closed Port Configuration, the "AB" Option adds a metering screw and bleed bypass across the valve seat. This controlled flow rate maintains a continuous system flow which reduces chemistry and bacteria build-up in both the valve gallery and associated plumbing.

Flow Options

Restrictive Flow Options are only available for 2Way Normally Closed Valves  
RC = Restricted Closure  
RO = Restricted Open  
RB = Restricted Both (RO + RC)  
AB = Anti-Bacteria Feature (MAH)  
MA = Micro Adjust Feature

Port Configuration

For 2-Way:
- C = 2Way Normally Closed  
- O = 2Way Normally Open

For 3-Way:
- CC = Port B Closed & Port C Closed  
- CO = Port B Closed & Port C Open  
- OO = Port B Open & Port C Open  
- OC = Port B Open & Port C Closed